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ABSTRACT

The National Assessment of Educational Progress (NAEP) completed its fourth mathematics assessment during the 1985-86 school year and finished the analyses of the results in 1988. This monograph, prepared by an interpretive team of the National Council of Teachers of Mathematics, represents a comprehensive discussion of the results of the fourth assessment based on the analyses provided by NAEP. The monograph presents examples of the cognitive and affective items and summarizes the results of the individual items for the different grade levels and subgroups. Topics discussed include: (1) mathematical methods; (2) discrete mathematics; (3) organization and interpretation of data; (4) measurement; (5) geometry; (6) variables and relations; (7) number and operations; (8) the use of calculators; (9) attitudes toward mathematics; (10) math proficiency levels nationally and for demographic subgroups; and (11) minority and gender differences in mathematics. Bibliographies for the four NAEP assessments are listed. (YP)

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